## **CHAMPOLLION**

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As part of the International Resetta Mission, the US NASA and the French CNES will provide acometti inderto be released from the orbiter and soft land on Comet I / Wirtanen to perform in situ analyses of the cometary nucleus. "This lander is named Champollion after the translator of the Rosetta stone. '1 heinvestigations on Champollion will focus on objectives that cannot be performed from the Rosetta orbiter. The instruments on Champellion will determine the elemental, molecular, mineralogical, and isotopic compositions of material down to depths of --1 m below the surface of the nucleus. 1 he physical structure of the nucleus will be determined through measurements of the near-surface strength, density, texture, porosity, ice phases, and thermal properties. Images will be obtained at resolutions ranging from 1 m to 5 pm. 1 henominallifetine of the lander on the surface of the cornet is 84 hours, during which measurement sequences can be repeated if necessary and subsurface samples can be obtained from three different depths.

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2. Space Exploration of Cometary Nuclei

3. Nicolas Thomas

4. Standard

5. Oral

6. No